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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		
10/621 169		Chien-Wei Li	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/621,168	07/15/2003		H0005036	3525
	7590 11/23/2004		EXAMINER	
Honeywell International, Inc.			LAAMINEK	
Law Dept. AB2 P.O. Box 2245 Morristown, NJ 07962-9806			GROUP, K	
			ART UNIT	DARED MIN (DED
			<u> </u>	PAPER NUMBER
			1755	
			DATE MAILED: 11/23/2004	l .

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	l
	10/621,168	LI ET AL.	
Office Action Summary	Examiner	Art Unit	
The MAIL INCO DATE AND	Karl E. Group	1755	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet wi	th the correspondence address -	
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 Cl after SIX (6) MONTHS from the mailing date of this communication  - If the period for reply specified above is less than thirty (30) days,  - If NO period for reply is specified above, the maximum statutory p  - Failure to reply within the set or extended period for reply will, by any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON.  FR 1.136(a). In no event, however, may a report.  a reply within the statutory minimum of thirty error will apply and will expire SIX (6) MONT	ply be timely filed (30) days will be considered timely. THS from the mailing date of this communica	ition.
Status			
1) Responsive to communication(s) filed on			
	This action is non-final.		
3) Since this application is in condition for all	owance except for formal matte	ers prosecution as to the morite	ic
closed in accordance with the practice und	ler <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.	15
Disposition of Claims		,	
4) ⊠ Claim(s) 1-7 is/are pending in the applicating 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1,2 and 5-7 is/are rejected. 7) ⊠ Claim(s) 3 and 4 is/are objected to. 8) □ Claim(s) are subject to restriction are	drawn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Exam	niner.		
10)☐ The drawing(s) filed on is/are: a)☐ a	accepted or b) objected to by	the Examiner	•
Applicant may not request that any objection to	the drawing(s) be held in abeyance	e. See 37 CFR 1 85(a)	
Replacement drawing sheet(s) including the cor	rection is required if the drawing(s)	is objected to Sec 27 CED 4 404	(d).
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached (	Office Action or form PTO-152.	,
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p application from the International Bure * See the attached detailed Office action for a l	ents have been received. ents have been received in App riority documents have been re eau (PCT Rule 17 2(a))	lication No ceived in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892)	<b>△□</b>		
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 7-15-04.</li> </ol>	4)	mary (PTO-413) ail Date mal Patent Application (PTO-152)	

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## Claim Rejections - 35 USC § 102 and 103

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1,2,5-7 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Tanaka et al (5,523,267).

Tanaka et al teach a silicon nitride sintered body further including .5-8 mole % rare earth oxide such as scandium. See specifically examples 15 of Table 1 and 19 of table 5. The silicon nitride product further includes 1-100 parts based upon 100 parts of the silicon nitride component of a silicon carbide component. Example 19, Table 5 shows 10 parts silicon carbide in combination with 100 parts of the silicon nitride and scandium.

It is well settled that when a claimed composition appears to be substantially the same as a composition disclosed in the prior art, the burden is properly upon the applicant to prove by way of tangible evidence that the prior art composition does not necessarily possess characteristics attributed to the CLAIMED composition. In re Spada, 911 F.2d 705, 15 USPQ2d 1655 (Fed. Circ. 1990); In re Fitzgerald, 619 F.2d 67, 205 USPQ 594 (CCPA 1980); In re Swinehart, 439 F.2d 2109, 169 USPQ 226 (CCPA 1971).

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4. Claims 1,5-8 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Morgan et al (4,401,768), Oda et al (5,804,523) and Yoshida et al (5,219,500).

Morgan et al teach a sintered silicon nitride body including .5-25 mole% scandium oxide.

Oda et al teach an example with 3 mole% scandium oxide, see example 4-21.

Yoshida et al teach a silicon nitride composite including 1-5 mole% scandium oxide, see Table 1, examples 1,6.

It is well settled that when a claimed composition appears to be substantially the same as a composition disclosed in the prior art, the burden is properly upon the applicant to prove by way of tangible evidence that the prior art composition does not necessarily possess characteristics attributed to the CLAIMED composition. In re Spada, 911 F.2d 705, 15 USPQ2d 1655 (Fed. Circ. 1990); In re Fitzgerald, 619 F.2d 67, 205 USPQ 594 (CCPA 1980); In re Swinehart, 439 F.2d 2109, 169 USPQ 226 (CCPA 1971).

## Conclusion

- 5. Claims 3,4 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art of record fails to teach or fairly suggest the claimed combination of components as set forth in claims 3 and 4.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl E. Group whose telephone number is 571-272-1368. The examiner can normally be reached on M-F (6:30-4:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Bell can be reached on 571-272-1362. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Primary Examiner Art Unit 1755

Kea 11-20-04